

### **ABSTRACT OF THE DISCLOSURE**

An electrically powered axial-flow fan has a hub to house the motor and support the fan blades. Small blades or vanes on the inside of the hub function as a radial-flow blower to draw cooling air through cooling ports on the electric motor housing. The vanes inside the hub cooperate with a flange surrounding the motor to form a low pressure chamber under the hub to improve cooling flow through the motor. This motor cooling air flow is then ejected into the exhaust stream of the axial-flow fan.